



AIR QUALITY BUREAU
Application Log in Desk
7900 Hickman Rd., Suite 1
Urbandale, IA 50322

AIR CONSTRUCTION PERMIT APPLICATION

Form EC: Emission Calculations
Please see instructions on reverse side

1) Company Name:										
2) Emission Point (Stack/Vent) Number:		3) Emission Calculation (Please see instructions for proper way to calculate). This calculation is based on (check all that apply): <input type="checkbox"/> Emission Factors <input type="checkbox"/> Mass Balance <input type="checkbox"/> Testing Data <input type="checkbox"/> Other:								
<u>Calculations:</u>										
5) POTENTIAL EMISSIONS: SUMMARY OF EMISSIONS FROM THIS EMISSION POINT										
Pollutant	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	VOC	CO	Lead	Single HAP	Total HAPs
Concentration, Unit:										
lbs/hr										
tons/year										

Instructions for Form EC

This form is used by DNR to better understand the process being permitted and to verify the emissions calculations and how they are calculated.

1. Provide company name.
2. Provide the number of the emission point that the emission unit(s) will exhaust into the atmosphere. This should be the same number as on form CS.
3. **Emissions Calculations:**
Check the appropriate box to indicate the basis for emission calculations. Emission calculations are used to verify potential compliance with the applicable standard or requested limit. Emissions need to be estimated using emission factors, a mass balance, testing data or another method as approved by DNR. A calculation based on an assumed grain loading that control equipment can meet is not an approved method of estimating emissions. For example, it is not acceptable to assume all baghouses can achieve 0.02 gr/dscf or better. Emission calculations need to be based on maximum throughput and an emission factor, also assuming the appropriate control efficiency (if applicable). Include a description of any assumptions used in making the calculations. If more space is needed, attach an 8.5" x 11" sheet(s) labeled EC-4A.
4. Summarize the **potential** emission rates for each air pollutant emitted from this emission point (stack or vent). For pollutant definitions, refer to Form EI instructions number 5. For a listing of hazardous air pollutants (HAPs), refer to Table A of the construction permit application. Indicate the concentration unit for each pollutant. Concentration is usually expressed in grains per standard cubic feet (gr/scf) for particulate, and parts per million by volume (ppmv) or pounds per million Btu (#/MMBTU) for gaseous pollutants.